

N/A

Gucker

CRF Errors Corrected by the STIC Systems Branch

1815

Serial Number: 08/972,862

CRF Processing Date: 1/16/98 H7
Edited by: AZ
Verified by: AZ (STIC staff)

- Changed a file from non-ASCII to ASCII
- Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- Edited a format error in the Current Application Data section, specifically:
- Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____
- Added the mandatory heading and subheadings for "Current Application Data".
- Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- Changed the spelling of a mandatory field (the headings or subheadings), specifically:
- Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
- Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
- Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- Inserted colons after headings/subheadings. Headings edited included:
- Deleted extra, invalid, headings used by an applicant, specifically:
- Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as _____
- Inserted mandatory headings, specifically:
- Corrected an obvious error in the response, specifically:
- Edited identifiers where upper case is used but lower case is required, or vice versa.
- Corrected an error in the Number of Sequences field, specifically:
- A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected:
- Other: deleted stray mark under (vii) PRIOR APP DATA section

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

PAGE: 1

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/977,862**DATE: 01/21/98
TIME: 09:56:10**INPUT SET: S22663.raw**

This Raw Listing contains the General
Information Section and up to the first 5 pages.

1 **SEQUENCE LISTING**
2
3 (1) **General Information**
4
5 (i) **APPLICANT:** Lawrence, Geoffrey
6
7 (ii) **TITLE OF THE INVENTION:** Novel Compounds
8
9
10 (iii) **NUMBER OF SEQUENCES:** 6
11
12 (iv) **CORRESPONDENCE ADDRESS:**
13 (A) **ADDRESSEE:** Ratner & Prestia
14 (B) **STREET:** P.O. Box 980
15 (C) **CITY:** Valley Forge
16 (D) **STATE:** PA
17 (E) **COUNTRY:** USA
18 (F) **ZIP:** 19482
19
20 (v) **COMPUTER READABLE FORM:**
21 (A) **MEDIUM TYPE:** Diskette
22 (B) **COMPUTER:** IBM Compatible
23 (C) **OPERATING SYSTEM:** DOS
24 (D) **SOFTWARE:** FastSEQ for Windows Version 2.0
25
26 (vi) **CURRENT APPLICATION DATA:**
27 (A) **APPLICATION NUMBER:** To be assigned
28 (B) **FILING DATE:** Herewith
29 (C) **CLASSIFICATION:**
30
31 (vii) **PRIOR APPLICATION DATA:**
32 (A) **APPLICATION NUMBER:** GB 96 24677.2
33 (B) **FILING DATE:** Filed November 27, 1996
34
35
36 (A) **APPLICATION NUMBER:** GB 9709463.5
37 (B) **FILING DATE:** May 9, 1997
38
39 (viii) **ATTORNEY/AGENT INFORMATION:**
40 (A) **NAME:** Prestia, Paul F.
41 (B) **REGISTRATION NUMBER:** 23,031
42 (C) **REFERENCE/DOCKET NUMBER:** GH30170
43
44 (ix) **TELECOMMUNICATION INFORMATION:**
45 (A) **TELEPHONE:** 610-407-0700
46 (B) **TELEFAX:** 610-407-0701

--> OK

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/977,862DATE: 01/21/98
TIME: 09:56:13

INPUT SET: S22663.raw

47 (C) TELEX: 846169

48

49

50 (2) INFORMATION FOR SEQ ID NO:1:

51

52 (i) SEQUENCE CHARACTERISTICS:

53 (A) LENGTH: 1200 base pairs

54 (B) TYPE: nucleic acid

55 (C) STRANDEDNESS: single

56 (D) TOPOLOGY: linear

57

58 (ii) MOLECULE TYPE: cDNA

59

60 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

61

62 ATGGTGCGCC	CCCTGAACCC	GCGACCGCTG	CCGCCCCGTAG	TCCTGATGTT	GCTGCTGCTG	60
63 CTGCGCCGT	CGCCGCTGCC	TCTCGCAGCC	GGAGACCCCC	TTCCCACAGA	AAGCCGACTC	120
64 ATGAACAGCT	GTCTCCAGGC	CAGGAGGAAG	TGCCAGGCTG	ATCCCACCTG	CAGTGCTGCC	180
65 TACCACCACC	TGGATTCCCTG	CACCTCTAGC	ATAAGCACCC	CACTGCCCTC	AGAGGAGCCT	240
66 TCGGTCCCTG	CTGACTGCCT	GGAGGCAGCA	CAGCAACTCA	GGAACAGCTC	TCTGATAGGC	300
67 TGCATGTGCC	ACCGGCGCAT	GAAGAACCCAG	GTTGCCTGCT	TGGACATCTA	TTGGACCGTT	360
68 CACCGTGCC	GCAGCCTTGG	TAACTATGAG	CTGGATGTCT	CCCCCTATGA	AGACACAGTG	420
69 ACCAGCAAAC	CCTGGAAAAT	GAATCTCAGC	AAACTGAACA	TGCTCAAACC	AGACTCAGAC	480
70 CTCTGCCTCA	AGTTTGCAT	GCTGTGTACT	CTCAATGACA	AGTGTGACCG	GCTGCGCAAG	540
71 GCCTACGGGG	AGGCGTGCTC	CGGGCCCCAC	TGCCAGGCC	ACGTCTGCC	CAGGAGCTG	600
72 CTCACTTCT	TCGAGAACCG	CGCCGAGCCC	CACGCGCAGG	GCCTGCTACT	GTGCCCATGT	660
73 GCCCCCCAACG	ACCGGGGCTG	CGGGGAGCGC	CGGCGCAACA	COATCGCCCC	CAACTGCGCG	720
74 CTGCGCCTG	TGGCCCCCAA	CTGCCCTGGAG	CTGCGCGCC	TCTGCTTCTC	CGACCCGCTT	780
75 TGCAGATCAC	GCCTGGTGG	TTTCCAGACC	CACTGCCATC	CCATGGACAT	CCTAGGAACT	840
76 TGTGCAACAG	AGCAGTCCAG	ATGTCTACGA	GCATACCTGG	GGCTGATTGG	GAUTGCCATG	900
77 ACCCCCCACT	TTGTCAGCAA	TGTCAACACC	AGTGTGCT	TAAGCTGCAC	CTGCGGAGGC	960
78 AGTGGCAACC	TGCAGGAGGA	GTGTGAAATG	CTGGAAGGGT	TCTTCTCCCA	CAACCCCTGC	1020
79 CTCACGGAGG	CCATTGCA	TAAGATGCGT	TTTCACAGCC	AACTCTTCTC	CCAGGACTGG	1080
80 CCACACCC	CCTTTGCTGT	GATGGCACAC	CAGAATGAAA	ACCTGCTGT	GAGGCCACAG	1140
81 CCCTGGGTGC	CCTCTCTTTT	CTCCTGCACG	CTTCCCTTGA	TTCTGCTCCT	GAGCCTATGG	1200

82

83 (2) INFORMATION FOR SEQ ID NO:2:

84

85 (i) SEQUENCE CHARACTERISTICS:

86 (A) LENGTH: 400 amino acids

87 (B) TYPE: amino acid

88 (C) STRANDEDNESS: single

89 (D) TOPOLOGY: linear

90

91 (ii) MOLECULE TYPE: peptide

92

93 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

94

95 Met Val Arg Pro Leu Asn Pro Arg Pro Leu Pro Pro Val Val Leu Met						
96 1	5	10	15			
97 Leu Leu Leu Leu Pro Pro Ser Pro Leu Pro Leu Ala Ala Gly Asp						
98 20	25	30				
99 Pro Leu Pro Thr Glu Ser Arg Leu Met Asn Ser Cys Leu Gln Ala Arg						

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/977,862DATE: 01/21/98
TIME: 09:56:17

INPUT SET: S22663.raw

100 35 40 45
101 Arg Lys Cys Gln Ala Asp Pro Thr Cys Ser Ala Ala Tyr His His Leu
102 50 55 60
103 Asp Ser Cys Thr Ser Ser Ile Ser Thr Pro Leu Pro Ser Glu Glu Pro
104 65 70 75 80
105 Ser Val Pro Ala Asp Cys Leu Glu Ala Ala Gln Gln Leu Arg Asn Ser
106 85 90 95
107 Ser Leu Ile Gly Cys Met Cys His Arg Arg Met Lys Asn Gln Val Ala
108 100 105 110
109 Cys Leu Asp Ile Tyr Trp Thr Val His Arg Ala Arg Ser Leu Gly Asn
110 115 120 125
111 Tyr Glu Leu Asp Val Ser Pro Tyr Glu Asp Thr Val Thr Ser Lys Pro
112 130 135 140
113 Trp Lys Met Asn Leu Ser Lys Leu Asn Met Leu Lys Pro Asp Ser Asp
114 145 150 155 160
115 Leu Cys Leu Lys Phe Ala Met Leu Cys Thr Leu Asn Asp Lys Cys Asp
116 165 170 175
117 Arg Leu Arg Lys Ala Tyr Gly Glu Ala Cys Ser Gly Pro His Cys Gln
118 180 185 190
119 Arg His Val Cys Leu Arg Gln Leu Leu Thr Phe Phe Glu Lys Ala Ala
120 195 200 205
121 Glu Pro His Ala Gln Gly Leu Leu Cys Pro Cys Ala Pro Asn Asp
122 210 215 220
123 Arg Gly Cys Gly Glu Arg Arg Arg Asn Thr Ile Ala Pro Asn Cys Ala
124 225 230 235 240
125 Leu Pro Pro Val Ala Pro Asn Cys Leu Glu Leu Arg Arg Leu Cys Phe
126 245 250 255
127 Ser Asp Pro Leu Cys Arg Ser Arg Leu Val Asp Phe Gln Thr His Cys
128 260 265 270
129 His Pro Met Asp Ile Leu Gly Thr Cys Ala Thr Glu Gln Ser Arg Cys
130 275 280 285
131 Leu Arg Ala Tyr Leu Gly Leu Ile Gly Thr Ala Met Thr Pro Asn Phe
132 290 295 300
133 Val Ser Asn Val Asn Thr Ser Val Ala Leu Ser Cys Thr Cys Arg Gly
134 305 310 315 320
135 Ser Gly Asn Leu Gln Glu Glu Cys Glu Met Leu Glu Gly Phe Phe Ser
136 325 330 335
137 His Asn Pro Cys Leu Thr Glu Ala Ile Ala Ala Lys Met Arg Phe His
138 340 345 350
139 Ser Gln Leu Phe Ser Gln Asp Trp Pro His Pro Thr Phe Ala Val Met
140 355 360 365
141 Ala His Gln Asn Glu Asn Pro Ala Val Arg Pro Gln Pro Trp Val Pro
142 370 375 380
143 Ser Leu Phe Ser Cys Thr Leu Pro Leu Ile Leu Leu Ser Leu Trp
144 385 390 395 400

145
146 (2) INFORMATION FOR SEQ ID NO:3:
147

- 148 (i) SEQUENCE CHARACTERISTICS:
149 (A) LENGTH: 1200 base pairs
150 (B) TYPE: nucleic acid
151 (C) STRANDEDNESS: single
152 (D) TOPOLOGY: linear

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/977,862**

DATE: 01/21/98
TIME: 09:56:20

INPUT SET: S22663.raw

153
 154 (ii) MOLECULE TYPE: cDNA
 155
 156 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
 157
 158 ATGGTGCGCC CCCTGAACCC GCGACCGCTG CCGCCCGTAG TCCTGATGTT GCTGCTGCTG 60
 159 CTGCCGCCGT CGCCGCTGCC TCTCGCAGCC GGAGACCCCC TTCCCACAGA AAGCCGACTC 120
 160 ATGAACAGCT GTCTCCAGGC CAGGAGGAAG TGCCAGGCTG ATCCCACCTG CAGTGATGCC 180
 161 TACCACCACC TGGATTCTCG CACCTCTAGC ATAAGCACCC CACTGCCCTC AGAGGAGCCT 240
 162 TCGGTCCCTG CTGACTGCCT GGAGGCAGCA CAGCAACTCA GGAACAGCTC TCTGATAGGC 300
 163 TGCATGTGCC ACCGGCGCAT GAAGAACCGAG GTTGCCTGCT TGGACATCTA TTGGACCGTT 360
 164 CACCGTGCC GCAGCCTTGG TAATCTATGAG CTGGATGTCT CCCCTATGAA AGACACAGTG 420
 165 ACCAGCAAAC CCTGGAAAAT GAATCTCAGC AAATGAAACA TGCTCAAACC AGACTCAGAC 480
 166 CTCTGCCTCA AGTTTGCAT GCTGTGTACT CTCAATGACA AGTGTGACCG GCTGCGCAAG 540
 167 GCCTACGGGG AGGCGTGCTC CGGGCCCCAC TGCCAGCGCC ACGTCTGCCT CAGGCAGCTG 600
 168 CTCACTTTCT TCGAGAAAGC CGCCGAGCCC CACGCGCAGG GCCTGCTACT GTGCCCATGT 660
 169 GCCCCCAACG ACCGGGGCTG CGGGGAGCGC CGGCGCAACA CCATCGCCCC CAACTGCGCG 720
 170 CTGCCGCCCTG TGGCCCCCAA CTGCCCTGGAG CTGGCGGCC TCTGCTTCTC CGACCCGCTT 780
 171 TGCAGATCAC GCCTGGTGGA TTTCCAGACC CACTGCCATC CCATGGACAT CCTAGGAACCT 840
 172 TGTGCAACAG AGCAGTCCAG ATGTCTACGA GCATACCTGG GGCTGATTGG GACTGCCATG 900
 173 ACCCCCAACT TTGTCAACCAA TGTCACACC AGTGTGCTT TAAGCTGCAC CTGCGGAGGC 960
 174 AGTGGCAACC TGCAGGAGGA GTGTGAAATG CTGGAAGGGT TCTTCTCCCA CAACCCCTGC 1020
 175 CTCACGGAGG CCATTGCAGC TAAGATGCCT TTTCACAGCC AACTCTTCTC CCAGGACTGG 1080
 176 CCACACCCCTA CCTTTGCTGT GATGGCACAC CAGAATGAAA ACCCTGCTGT GAGGCCACAG 1140
 177 CCCTGGGTGC CCTCTCTTTT CTCCCTGCACG CTTCCCTTGA TTCTGCTCCT GAGCCTATGG 1200
 178
 179 (2) INFORMATION FOR SEQ ID NO:4:
 180
 181 (i) SEQUENCE CHARACTERISTICS:
 182 (A) LENGTH: 400 amino acids
 183 (B) TYPE: amino acid
 184 (C) STRANDEDNESS: single
 185 (D) TOPOLOGY: linear
 186
 187 (ii) MOLECULE TYPE: peptide
 188
 189 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
 190
 191 Met Val Arg Pro Leu Asn Pro Arg Pro Leu Pro Pro Val Val Leu Met
 192 1 5 10 15
 193 Leu Leu Leu Leu Pro Pro Ser Pro Leu Pro Leu Ala Ala Gly Asp
 194 20 25 30
 195 Pro Leu Pro Thr Glu Ser Arg Leu Met Asn Ser Cys Leu Gln Ala Arg
 196 35 40 45
 197 Arg Lys Cys Gln Ala Asp Pro Thr Cys Ser Asp Ala Tyr His His Leu
 198 50 55 60
 199 Asp Ser Cys Thr Ser Ser Ile Ser Thr Pro Leu Pro Ser Glu Glu Pro
 200 65 70 75 80
 201 Ser Val Pro Ala Asp Cys Leu Glu Ala Ala Gln Gln Leu Arg Asn Ser
 202 85 90 95
 203 Ser Leu Ile Gly Cys Met Cys His Arg Arg Met Lys Asn Gln Val Ala
 204 100 105 110
 205 Cys Leu Asp Ile Tyr Trp Thr Val His Arg Ala Arg Ser Leu Gly Asn

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/977,862DATE: 01/21/98
TIME: 09:56:24

INPUT SET: S22663.raw

206	115	120	125
207	Tyr Glu Leu Asp Val Ser Pro Tyr Glu Asp Thr Val Thr Ser Lys Pro		
208	130	135	140
209	Trp Lys Met Asn Leu Ser Lys Leu Asn Met Leu Lys Pro Asp Ser Asp		
210	145	150	155
211	Leu Cys Leu Lys Phe Ala Met Leu Cys Thr Leu Asn Asp Lys Cys Asp		
212	165	170	175
213	Arg Leu Arg Lys Ala Tyr Gly Glu Ala Cys Ser Gly Pro His Cys Gln		
214	180	185	190
215	Arg His Val Cys Leu Arg Gln Leu Leu Thr Phe Phe Glu Lys Ala Ala		
216	195	200	205
217	Glu Pro His Ala Gln Gly Leu Leu Leu Cys Pro Cys Ala Pro Asn Asp		
218	210	215	220
219	Arg Gly Cys Gly Glu Arg Arg Asn Thr Ile Ala Pro Asn Cys Ala		
220	225	230	235
221	Leu Pro Pro Val Ala Pro Asn Cys Leu Glu Leu Arg Arg Leu Cys Phe		
222	245	250	255
223	Ser Asp Pro Leu Cys Arg Ser Arg Leu Val Asp Phe Gln Thr His Cys		
224	260	265	270
225	His Pro Met Asp Ile Leu Gly Thr Cys Ala Thr Glu Gln Ser Arg Cys		
226	275	280	285
227	Leu Arg Ala Tyr Leu Gly Leu Ile Gly Thr Ala Met Thr Pro Asn Phe		
228	290	295	300
229	Val Ser Asn Val Asn Thr Ser Val Ala Leu Ser Cys Thr Cys Arg Gly		
230	305	310	315
231	Ser Gly Asn Leu Gln Glu Glu Cys Glu Met Leu Glu Gly Phe Phe Ser		
232	325	330	335
233	His Asn Pro Cys Leu Thr Glu Ala Ile Ala Ala Lys Met Arg Phe His		
234	340	345	350
235	Ser Gln Leu Phe Ser Gln Asp Trp Pro His Pro Thr Phe Ala Val Met		
236	355	360	365
237	Ala His Gln Asn Glu Asn Pro Ala Val Arg Pro Gln Pro Trp Val Pro		
238	370	375	380
239	Ser Leu Phe Ser Cys Thr Leu Pro Leu Ile Leu Leu Ser Leu Trp		
240	385	390	395
241			400

242 (2) INFORMATION FOR SEQ ID NO:5:

243
 244 (i) SEQUENCE CHARACTERISTICS:
 245 (A) LENGTH: 519 base pairs
 246 (B) TYPE: nucleic acid
 247 (C) STRANDEDNESS: single
 248 (D) TOPOLOGY: linear

249
 250 (ii) MOLECULE TYPE: cDNA

251
 252 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

254	GAGCGCCGGC GCAACACCAT CGCCCCAAC TGCGCGCTGC CGCCTGTGGC CCCCAACTGC	60
255	CTGGAGCTGC GGCGCCTCTG CTTCTCCGAC CCGCTTGCA GATCACGCC GGTGGATTTTC	120
256	CAGACCCACT GCCATCCCCT GGACATCCTA GGAACTTGTG CAACAGAGCA GTCCAGATGT	180
257	CTACGAGCAT ACCTGGGGCT GATTGGGACT GCCATGACCC CCAACTTTGT CAGCAATGTC	240
258	AACACCAGTG TTGCCTTAAG CTGCACCTGC CGAGGCAGTG GCAACCTGCA GGAGGAGTGT	300

PAGE: 1

**SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/977,862**

DATE: 01/21/98
TIME: 09:56:27

INPUT SET: S22663.raw

Line	Error	Original Text
27	Wrong application Serial Number	(A) APPLICATION NUMBER:To be assigned

PAGE: 1

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/977,862**DATE: 01/16/98
TIME: 14:03:57**INPUT SET: S22663.raw**

This Raw Listing contains the General
Information Section and up to the first 5 pages.

1 SEQUENCE LISTING
2
3 (1) General Information
4
5 (i) APPLICANT: Lawrence, Geoffrey
6
7 (ii) TITLE OF THE INVENTION: Novel Compounds
8
9
10 (iii) NUMBER OF SEQUENCES: 6
11
12 (iv) CORRESPONDENCE ADDRESS:
13 (A) ADDRESSEE: Ratner & Prestia
14 (B) STREET: P.O. Box 980
15 (C) CITY: Valley Forge
16 (D) STATE: PA
17 (E) COUNTRY: USA
18 (F) ZIP: 19482
19
20 (v) COMPUTER READABLE FORM:
21 (A) MEDIUM TYPE: Diskette
22 (B) COMPUTER: IBM Compatible
23 (C) OPERATING SYSTEM: DOS
24 (D) SOFTWARE: FastSEQ for Windows Version 2.0
25
26 (vi) CURRENT APPLICATION DATA:
27 (A) APPLICATION NUMBER: To be assigned
28 (B) FILING DATE: Herewith
29 (C) CLASSIFICATION:
30
31 (vii) PRIOR APPLICATION DATA:
32 (A) APPLICATION NUMBER: GB 96 24677.2
33 (B) FILING DATE: Filed November 27, 1996
34
35 (A) APPLICATION NUMBER: GB 9709463.5
36 (B) FILING DATE: May 9, 1997
37
38 (viii) ATTORNEY/AGENT INFORMATION:
39 (A) NAME: Prestia, Paul F.
40 (B) REGISTRATION NUMBER: 23,031
41 (C) REFERENCE/DOCKET NUMBER: GH30170
42
43 (ix) TELECOMMUNICATION INFORMATION:
44 (A) TELEPHONE: 610-407-0700
45 (B) TELEFAX: 610-407-0701
46 (C) TELEX: 846169

Does Not Comply
Corrected Diskette Needed

--> OK

and

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/977,862**

DATE: 01/16/98
TIME: 14:03:59

INPUT SET: S22663.raw

47

48

49 (2) INFORMATION FOR SEQ ID NO:1:

50

51 (i) SEQUENCE CHARACTERISTICS:

52 (A) LENGTH: 1200 base pairs
 53 (B) TYPE: nucleic acid
 54 (C) STRANDEDNESS: single
 55 (D) TOPOLOGY: linear

56

57 (ii) MOLECULE TYPE: cDNA

58

59 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

60

61 ATGGTGCGCC	CCCTGAACCC	GCGACCGCTG	CCGCCCCGTAG	TCCTGATGTT	GCTGCTGCTG	60
62 CTGCCGCCGT	CGCCGCTGCC	TCTCGCAGCC	GGAGACCCCC	TTCCCACAGA	AAGCCGACTC	120
63 ATGAACAGCT	GTCTCCAGGC	CAGGAGGAAG	TGCCAGGCTG	ATCCCACCTG	CAGTGCTGCC	180
64 TACCACCACC	TGGATTCCCTG	CACCTCTAGC	ATAAGCACCC	CACTGCCCTC	AGAGGAGCCT	240
65 TCGGTCCCTG	CTGACTGCCCT	GGAGGCAGCA	CAGCAACTCA	GGAAACAGCTC	TCTGATAGGC	300
66 TGCATGTGCC	ACCGGCCCAT	GAAGAACCAAG	GTTGCCGTGCT	TGGACATCTA	TTGGACCGTT	360
67 CACCGTGCCTC	GCAGCCTTGG	TAACTATGAG	CTGGATGTCT	CCCCCTATGA	AGACACAGTG	420
68 ACCAGCAAAC	CCTGGAAAAT	GAATCTCAGC	AAACTGAACA	TCCTCAAACC	AGACTCAGAC	480
69 CTCTGCCCTA	AGTTTGCCAT	GCTGTGTACT	CTCAATGACA	AGTGTGACCG	GCTGCGCAAG	540
70 GCCTACGGGG	AGGCGTGCTC	CGGGCCCCAC	TGCCAGGCC	ACGTCTGCCT	CAGGCAGCTG	600
71 CTCACTTTCT	TCGAGAAGGC	CGCCGAGCCC	CACGCGCAGG	GCCTGCTACT	GTGCCCATGT	660
72 GCCCCCCAACG	ACCGGGGCTG	CGGGGAGCGC	CGGCCGCAACA	CCATCGCCCC	CAACTGCGCG	720
73 CTGCCGCCCTG	TGGCCCCCAA	CTGCCCTGGAG	CTGCCGCC	TCTGCTTCTC	CGACCCGCTT	780
74 TGCAGATCAC	GCCTGGTGG	TTTCCAGACC	CACTGCCATC	CCATGGACAT	CCTAGGAACT	840
75 TGTCAACAG	AGCAGTCCAG	ATGTCTACGA	GCATACCTGG	GGCTGATTGG	GAUTGCCATG	900
76 ACCCCAAC	TTGTCAGCAA	TGTCAACACC	AGTGTGCT	TAAGCTGCAC	CTGCCGAGGC	960
77 AGTGGCAACC	TGCAGGAGGA	GTGTGAAATG	CTGGAAGGGT	TCTTCTCCCA	CAACCCCTGC	1020
78 CTCACGGAGG	CCATTGCAGC	TAAGATGCGT	TTTCACAGCC	AACTCTTCTC	CCAGGACTGG	1080
79 CCACACCCTA	CCTTTGCTGT	GATGGCACAC	CAGAATGAAA	ACCCTGCTGT	GAGGCCACAG	1140
80 CCCTGGGTGC	CCTCTCTTTT	CTCCTGCACG	CTTCCCTTGA	TTCTGCTCCT	GAGCCTATGG	1200

81

82 (2) INFORMATION FOR SEQ ID NO:2:

83

84 (i) SEQUENCE CHARACTERISTICS:

85 (A) LENGTH: 400 amino acids
 86 (B) TYPE: amino acid
 87 (C) STRANDEDNESS: single
 88 (D) TOPOLOGY: linear

89

90 (ii) MOLECULE TYPE: peptide

91

92 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

93

94 Met Val Arg Pro Leu Asn Pro Arg Pro Leu Pro Pro Val Val Leu Met						
95 1	5	10	15			
96 Leu Leu Leu Leu Pro Pro Ser Pro Leu Pro Leu Ala Ala Gly Asp						
97 20	25	30				
98 Pro Leu Pro Thr Glu Ser Arg Leu Met Asn Ser Cys Leu Gln Ala Arg						
99 35	40	45				

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/977,862DATE: 01/16/98
TIME: 14:04:02

INPUT SET: S22663.raw

100 Arg Lys Cys Gln Ala Asp Pro Thr Cys Ser Ala Ala Tyr His His Leu
101 50 55 60
102 Asp Ser Cys Thr Ser Ser Ile Ser Thr Pro Leu Pro Ser Glu Glu Pro
103 65 70 75 80
104 Ser Val Pro Ala Asp Cys Leu Glu Ala Ala Gln Gln Leu Arg Asn Ser
105 85 90 95
106 Ser Leu Ile Gly Cys Met Cys His Arg Arg Met Lys Asn Gln Val Ala
107 100 105 110
108 Cys Leu Asp Ile Tyr Trp Thr Val His Arg Ala Arg Ser Leu Gly Asn
109 115 120 125
110 Tyr Glu Leu Asp Val Ser Pro Tyr Glu Asp Thr Val Thr Ser Lys Pro
111 130 135 140
112 Trp Lys Met Asn Leu Ser Lys Leu Asn Met Leu Lys Pro Asp Ser Asp
113 145 150 155 160
114 Leu Cys Leu Lys Phe Ala Met Leu Cys Thr Leu Asn Asp Lys Cys Asp
115 165 170 175
116 Arg Leu Arg Lys Ala Tyr Gly Glu Ala Cys Ser Gly Pro His Cys Gln
117 180 185 190
118 Arg His Val Cys Leu Arg Gln Leu Leu Thr Phe Phe Glu Lys Ala Ala
119 195 200 205
120 Glu Pro His Ala Gln Gly Leu Leu Cys Pro Cys Ala Pro Asn Asp
121 210 215 220
122 Arg Gly Cys Gly Glu Arg Arg Arg Asn Thr Ile Ala Pro Asn Cys Ala
123 225 230 235 240
124 Leu Pro Pro Val Ala Pro Asn Cys Leu Glu Leu Arg Arg Leu Cys Phe
125 245 250 255
126 Ser Asp Pro Leu Cys Arg Ser Arg Leu Val Asp Phe Gln Thr His Cys
127 260 265 270
128 His Pro Met Asp Ile Leu Gly Thr Cys Ala Thr Glu Gln Ser Arg Cys
129 275 280 285
130 Leu Arg Ala Tyr Leu Gly Leu Ile Gly Thr Ala Met Thr Pro Asn Phe
131 290 295 300
132 Val Ser Asn Val Asn Thr Ser Val Ala Leu Ser Cys Thr Cys Arg Gly
133 305 310 315 320
134 Ser Gly Asn Leu Gln Glu Glu Cys Glu Met Leu Glu Gly Phe Phe Ser
135 325 330 335
136 His Asn Pro Cys Leu Thr Glu Ala Ile Ala Ala Lys Met Arg Phe His
137 340 345 350
138 Ser Gln Leu Phe Ser Gln Asp Trp Pro His Pro Thr Phe Ala Val Met
139 355 360 365
140 Ala His Gln Asn Glu Asn Pro Ala Val Arg Pro Gln Pro Trp Val Pro
141 370 375 380
142 Ser Leu Phe Ser Cys Thr Leu Pro Leu Ile Leu Leu Leu Ser Leu Trp
143 385 390 395 400
144
145 (2) INFORMATION FOR SEQ ID NO:3:
146
147 (i) SEQUENCE CHARACTERISTICS:
148 (A) LENGTH: 1200 base pairs
149 (B) TYPE: nucleic acid
150 (C) STRANDEDNESS: single
151 (D) TOPOLOGY: linear
152

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/977,862DATE: 01/16/98
TIME: 14:04:04

INPUT SET: S22663.raw

153 (ii) MOLECULE TYPE: cDNA
 154
 155 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
 156
 157 ATGGTGCGCC CCCTGAACCC GCGACCGCTG CCGCCCGTAG TCCTGATGTT GCTGCTGCTG 60
 158 CTGCCGCCGT CGCCGCTGCC TCTCGCAGCC GGAGACCCCC TTCCCACAGA AAGCCGACTC 120
 159 ATGAACAGCT GTCTCCAGGC CAGGAGGAAG TGCCAGGCTG ATCCCCACCTG CAGTGATGCC 180
 160 TACCACCACC TGGATTCCCTG CACCTCTAGC ATAAGCACCC CACTGCCCTC AGAGGAGCCT 240
 161 TCGGTCCCTG CTGACTGCCCT GGAGGCAGCA CAGCAACTCA GAAACAGCTC TCTGATAGGC 300
 162 TGCATGTGCC ACCGGCGCAT GAAGAACCAAG GTTGCCTGCT TGGACATCTA TTGGACCGTT 360
 163 CACCGTGCCCG GCAGCCTTGG TAACTATGAG CTGGATGTCT CCCCTATGA AGACACAGTG 420
 164 ACCAGCAAAC CCTGGAAAAT GAATCTCAGC AAACATGAACA TGCTCAAACC AGACTCAGAC 480
 165 CTCTGCCTCA AGTTTGCCAT GCTGTGTACT CTCAATGACA AGTGTGACCG GCTGCGCAAG 540
 166 GCCTACGGGG AGGGCGTGCCT CGGGCCCCAC TGCCAGGCC ACAGTCTGCCCT CAGGCAGCTG 600
 167 CTCACCTTCT TCGAGAACAG CGCCGAGGCC CACGCGCAGG GCCTGCTACT GTGCCCATGT 660
 168 GCCGCCAACG ACCGGGGCTG CGGGGAGCGC CGGGCGCAACA CCATCGCCCC CAACTGCGCG 720
 169 CTGCCGCCTG TGGCCCCCAA CTGCCTGGAG CTGGCGGCC TCTGCTTCTC CGACCCGCTT 780
 170 TGCAGATCAC GCCTGGTGGA TTTCCAGACC CACTGCCATC CCATGGACAT CCTAGGAACCT 840
 171 TGTGCAACAG AGCAGTCCAG ATGTCTACGA GCATACCTGG GGCTGATTGG GACTGCCATG 900
 172 ACCCCCAACT TTGTCAGCAA TGTCACACACC AGTGTGCCT TAAGCTGCAC CTGCGGAGGC 960
 173 AGTGGCAACC TGCAGGAGGA GTGTGAAATG CTGGAAGGGT TCTTCTCCCA CAACCCCTGC 1020
 174 CTCACGGAGG CCATTGCAAGC TAAGATGCGT TTTCACAGCC AACTCTTCTC CCAGGACTGG 1080
 175 CCACACCCCTA CCTTTGCTGT GATGGCACAC CAGAATGAAA ACCCTGCTGT GAGGCCACAG 1140
 176 CCCTGGGTGC CCTCTCTTTT CTCCTGCACG CTTCCCTTGA TTCTGCTCCT GAGCCTATGG 1200

177
 178 (2) INFORMATION FOR SEQ ID NO:4:
 179

180 (i) SEQUENCE CHARACTERISTICS:
 181 (A) LENGTH: 400 amino acids
 182 (B) TYPE: amino acid
 183 (C) STRANDEDNESS: single
 184 (D) TOPOLOGY: linear

185
 186 (ii) MOLECULE TYPE: peptide
 187

188 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
 189

190 Met Val Arg Pro Leu Asn Pro Arg Pro Leu Pro Pro Val Val Leu Met
 191 1 5 10 15
 192 Leu Leu Leu Leu Pro Pro Ser Pro Leu Pro Leu Ala Ala Gly Asp
 193 20 25 30
 194 Pro Leu Pro Thr Glu Ser Arg Leu Met Asn Ser Cys Leu Gln Ala Arg
 195 35 40 45
 196 Arg Lys Cys Gln Ala Asp Pro Thr Cys Ser Asp Ala Tyr His His Leu
 197 50 55 60
 198 Asp Ser Cys Thr Ser Ser Ile Ser Thr Pro Leu Pro Ser Glu Glu Pro
 199 65 70 75 80
 200 Ser Val Pro Ala Asp Cys Leu Glu Ala Ala Gln Gln Leu Arg Asn Ser
 201 85 90 95
 202 Ser Leu Ile Gly Cys Met Cys His Arg Arg Met Lys Asn Gln Val Ala
 203 100 105 110
 204 Cys Leu Asp Ile Tyr Trp Thr Val His Arg Ala Arg Ser Leu Gly Asn
 205 115 120 125

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/977,862DATE: 01/16/98
TIME: 14:04:06

INPUT SET: S22663.raw

206 Tyr Glu Leu Asp Val Ser Pro Tyr Glu Asp Thr Val Thr Ser Lys Pro
 207 130 135 140
 208 Trp Lys Met Asn Leu Ser Lys Leu Asn Met Leu Lys Pro Asp Ser Asp
 209 145 150 155 160
 210 Leu Cys Leu Lys Phe Ala Met Leu Cys Thr Leu Asn Asp Lys Cys Asp
 211 165 170 175
 212 Arg Leu Arg Lys Ala Tyr Gly Glu Ala Cys Ser Gly Pro His Cys Gln
 213 180 185 190
 214 Arg His Val Cys Leu Arg Gln Leu Leu Thr Phe Phe Glu Lys Ala Ala
 215 195 200 205
 216 Glu Pro His Ala Gln Gly Leu Leu Leu Cys Pro Cys Ala Pro Asn Asp
 217 210 215 220
 218 Arg Gly Cys Gly Glu Arg Arg Arg Asn Thr Ile Ala Pro Asn Cys Ala
 219 225 230 235 240
 220 Leu Pro Pro Val Ala Pro Asn Cys Leu Glu Leu Arg Arg Leu Cys Phe
 221 245 250 255
 222 Ser Asp Pro Leu Cys Arg Ser Arg Leu Val Asp Phe Gln Thr His Cys
 223 260 265 270
 224 His Pro Met Asp Ile Leu Gly Thr Cys Ala Thr Glu Gln Ser Arg Cys
 225 275 280 285
 226 Leu Arg Ala Tyr Leu Gly Leu Ile Gly Thr Ala Met Thr Pro Asn Phe
 227 290 295 300
 228 Val Ser Asn Val Asn Thr Ser Val Ala Leu Ser Cys Thr Cys Arg Gly
 229 305 310 315 320
 230 Ser Gly Asn Leu Gln Glu Glu Cys Glu Met Leu Glu Gly Phe Phe Ser
 231 325 330 335
 232 His Asn Pro Cys Leu Thr Glu Ala Ile Ala Ala Lys Met Arg Phe His
 233 340 345 350
 234 Ser Gln Leu Phe Ser Gln Asp Trp Pro His Pro Thr Phe Ala Val Met
 235 355 360 365
 236 Ala His Gln Asn Glu Asn Pro Ala Val Arg Pro Gln Pro Trp Val Pro
 237 370 375 380
 238 Ser Leu Phe Ser Cys Thr Leu Pro Leu Ile Leu Leu Leu Ser Leu Trp
 239 385 390 395 400
 240

241 (2) INFORMATION FOR SEQ ID NO:5:
242

243 (i) SEQUENCE CHARACTERISTICS:

- 244 (A) LENGTH: 519 base pairs
 245 (B) TYPE: nucleic acid
 246 (C) STRANDEDNESS: single
 247 (D) TOPOLOGY: linear

248 (ii) MOLECULE TYPE: cDNA
249250 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
251

253 GAGCGCCGGC	GCAACACCAT CGCCCCAAC	TGCGCGCTGC CGCCTGTGGC CCCCAACTGC	60
254 CTGGAGCTGC	GGCGCCTCTG CTTCTCCGAC	CCGCTTGCA GATCACGCC GGTGGATTTC	120
255 CAGACCCACT	GCCATCCCCT GGACATCCTA	GGAACTTGTG CAACAGAGCA GTCCAGATGT	180
256 CTACGAGCAT	ACCTGGGCT GATTGGACT	GCCATGACCC CCAACTTTGT CAGCAATGTC	240
257 AACACCAGTG	TTGCCTTAAG CTGCACCTGC	CGAGGCAGTG GCAACCTGCA GGAGGAGTGT	300
258 GAAATGCTGG	AAGGGTTCTT CTCCCCAAC	CCCTGCCCTCA CGGAGGCCAT TGCAGCTAAG	360

PAGE: 1

**SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/977,862**

DATE: 01/16/98
TIME: 14:04:09

INPUT SET: S22663.raw

Line	Error	Original Text
27	Wrong application Serial Number	(A) APPLICATION NUMBER:To be assigned